

# United States Patent and Trademark Office

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/986,552	12/08/1997	Edward F. Leonard	A31399	5083
21003 75	590 03/31/2004		EXAMINER	
BAKER & BOTTS			REDDING, DAVID A	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER
			1744	
	•		DATE MAILED: 03/31/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	08/986,552	LEONARD ET AL.				
Office Action Summary	Examiner	Art Unit				
	David A Redding	1744				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
,	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>7-18</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) <u>4-6</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct	- · ·					
11) The oath or declaration is objected to by the Ex	·					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110(a)	\_(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents		-(a) Oi (i).				
2. Certified copies of the priority documents	s have been received in Applicati	on No				
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)	4) T Intonúm. O	(DTO 442)				
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ratent Application (PTO-152)				

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#### **DETAILED ACTION**

### Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-6, are drawn to a method, classified in class 435, subclass 372.
- II. Claims 7-18, are drawn to a device, classified in class 210, subclass 789.

The inventions are distinct, each from the other because of the following reasons:

Inventions of group I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed is not limited to collecting fetal cells but can be used for other cells.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

During a telephone conversation with Mr. Tang on 3/12/2004 a provisional election was made with traverse to prosecute the invention of group I, claims 1-6.

Affirmation of this election must be made by applicant in replying to this Office action.

Claim7-18 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1,2, are rejected under 35 U.S.C. 103(a) as being unpatentable over USP 5,447,842 (Simons).

The Simons patent discloses the various methods for separating fetal cells from maternal cells including binding one of the cell types to a immobilized antigen. The immobilized antigen can be placed on beads in the container or the antigen can be immobilized on the interior surface of the container (see col. 10, lines 5-18). The reference is silent as to incurring "chaotic flow" to induce contact. However, in the absence of unexpected results one skilled in the art would expect that any type of flow

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of the suspension liquid, as long as it resulted in the mixing of the liquid would be sufficient to cause contact between the cells and immobilized antigen.

## Allowable Subject Matter

Claims 3-6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining US patent are generally related to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Redding whose telephone number is 571-272-1276. The examiner can normally be reached on Mon.-Fri. 6:00 - 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D.A.R.

JAVID A. REDDING RIMARY EXAMINES